WOOD RODGERS

September 20, 2023
Project No. 2892.040

Mr. Eric Jones
**JOY ENGINEERING**
1584 Wolf Meadows Lane
Portola, California 96122

**RE: Sloat Quarry – Class 2 Aggregate Base Course**

Dear Mr. Jones:

Per your request, we have performed testing on the Class 2 aggregate base course delivered to our laboratory from the Sloat Quarry. Test results in comparison with Section 26 of the 2018 Caltrans Standard Specifications are as follows:

| Sieve Size Analysis (CT 202) | | |
|---|---|---|
| U.S. Standard Sieve Size | Percent By Weight Passing | |
| | Sloat Quarry | Caltrans Specifications Operating Range |
| 1 Inch | 100 | 100 |
| ¾ Inch | 97 | 90 – 100 |
| ½ Inch | 77 | – |
| ⅜ Inch | 66 | – |
| No. 4 | 47 | 35 – 65 |
| No. 8 | 35 | – |
| No. 16 | 26 | – |
| No. 30 | 19 | 10 – 30 |
| No. 50 | 14 | – |
| No. 100 | 11 | – |
| No. 200 | 8.4 | 2 – 9 |

| Durability Index (CT 229) | |
|---|---|
| Sloat Quarry (Coarse/Fine) | Caltrans Specifications Contract Compliance |
| 50 | 35 Minimum |

| Sand Equivalent (CT 217) | |
|---|---|
| Sloat Quarry (Fine Portion) | Caltrans Specifications Contract Compliance |
| 31 | 22 Minimum |

| R-Value (CT 301) | |
|---|---|
| Sloat Quarry | Caltrans Specifications Contract Compliance |
| 83 | 78 Minimum |

| Moisture Density (ASTM D1557C) | |
|---|---|
| Maximum Dry Density | 139.3 PCF |
| Optimum Moisture | 9.5 % |

We appreciate the opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to call.

Sincerely,
**WOOD RODGERS, INCORPORATED**

Wheeler Musnicki
Assistant Lab Manager

Mischelle J. Smith, PE
Senior Engineer
RE No. C38777
Expires 3/31/25

REGISTERED PROFESSIONAL ENGINEER
MISCHELLE JANINE SMITH
No. C38777
Exp. 3/31/25
CIVIL
STATE OF CALIFORNIA
9-20-23